

Climate Literacy & NGSS Online

Professional Learning Workshop for Secondary Science Teachers

Towson University's [Center for STEM Excellence](#) is excited to announce an online professional development workshop focusing on climate literacy aligned with the Next Generation Science Standards for science teachers of grades 6 - 12. The *Climate Literacy and NGSS* workshop will be completely online, with both synchronous and asynchronous meetings. See the "When" section below for details on dates and times.

During the workshop, participants will learn about three different classroom climate change activities and how they connect to the three-dimensions (Practices, Crosscutting Concepts and Disciplinary Core Ideas) of the Next Generation Science Standards (NGSS). Workshop learning goals include:

- Learn how to facilitate three Climate Change activities offered through the Maryland Loaner Lab. Click on the links below to learn more about each activity.
 - [It's a Gassy World!](#)
 - [Looking Backwards, Looking Forward](#)
 - [Ocean Acidification and Oysters](#)
- Learn strategies for teaching about climate change
- Network with fellow secondary science educators interested in climate change education
- Share your experiences incorporating climate change education in your classroom

Who can apply? This workshop is appropriate for any teacher of grades 6-12 who is interested in learning more about incorporating NGSS-aligned climate change education into their classroom.

What: The workshop will take place completely online. Participants will work in a collaborative, hands-on, learner-centered environment to learn how to facilitate three Maryland Loaner Lab activities focused on climate change. Participants will receive materials in the mail to engage in hands-on activities during the synchronous online learning sessions and will leave the workshop with the knowledge and pedagogical skills to implement these lessons in their classrooms. All the activities were specifically developed to incorporate three-dimensional teaching and learning and aligned with NGSS. Participants will be expected to implement one of the climate change activities in their classrooms (and will be provided with all the materials needed to do so) during the 2021-22 school year and report on the experience during the March meeting or in a written reflection. Teachers will be able to keep all the materials for use in future years.

Participants are expected to:

- Complete a pre- and post-workshop survey
- Participate in all synchronous online sessions and complete all asynchronous assignments
- Implement a classroom lesson on climate change (materials will be provided)
- Share their implementation experience with colleagues

Where: The workshop will be held online. Because this course is completely online, it is important to understand that having the appropriate technology will be necessary for successfully completing this course. We ask that you have a device (computer recommended; tablet acceptable) with a working camera so that you are able to participate in video conferences during the online synchronous portion of the course.

When: The workshop be 100% online, with both synchronous and asynchronous meetings. See chart below for details.

Climate Literacy and NGSS Online Workshop Schedule				
Synchronous			Asynchronous	
Day	Time	Hours	Days	Hours
6/28/2021	8:30 am to 12:30 pm	4	6/29/2021	3
6/30/2021	8:30 am to 12:30 pm	4	7/1/2021	3
7/2/2021	8:30 am to 12:30 pm	4	7/3/2021	3
3/12/2022	8:30 am to 12:30 pm	4	~10 hours of independent work for implementation project expected during the 2021-2022 school year.	

Why? You will learn about engaging, learner-centered climate change activities that incorporate three-dimensional instructional practices that are the foundation of the NGSS. All participants will also receive:

- Up to \$200 in resources, including materials to conduct climate change activities in their classrooms
- Access to a community of fellow educators committed to climate change education
- A certificate documenting their successful completion of the training
- CPD credits (2) for teachers who successfully complete the workshop

How: Submit an application. **Application deadline is June 1, 2021.** Participants will be notified of acceptance no later than June 11, 2021. The application has two parts:

- Teacher Application: <https://forms.gle/iV1gmEuYzYidoM259>
- Principal Letter of Support: <https://forms.gle/XLEmLHUGZas5jBqq9>

We must receive both the Teacher Application and the Principal Letter of support for your application to be considered complete. We will send an email acknowledging all completed applications. If you do not receive this acknowledgement, assume we either did not receive your application or it was incomplete and not considered. Contact Kara Berger at kberger@towson.edu at any time to confirm status of your application or with questions.

